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NEWS 15 OCT 27 EPFULL enhanced with additional content  
  
NEWS EXPRESS JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005  
  
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FILE | HOME | ENTERED AT 18:13:31 ON 28 OCT 2005

=> file medline, uspatful, dgene, embase, wpids, fsta, jicst, wpids, biosis,  
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COST IN U.S. DOLLARS SINCE FILE TOTAL  
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FILE 'MEDLINE' ENTERED AT 18:14:06 ON 28 OCT 2005

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=> s (recrystallization inhibition assay)

L1 7 (RECRYSTALLIZATION INHIBITION ASSAY)

=> d 11 ti abs ibib tot

L1 ANSWER 1 OF 7 USPATFULL on STN

TI Nucleic acid sequences encoding type III tenebrio antifreeze proteins and method for assaying activity

AB Thermal hysteresis proteins and their nucleotide sequences derived from the Tenebrionoidea Superfamily which lower the freezing point of a solution without effecting the melting point. Related methods for preparing said proteins and for providing antifreeze or recrystallization inhibition properties to a subject formulation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2005:240509 USPATFULL

TITLE: Nucleic acid sequences encoding type III tenebrio antifreeze proteins and method for assaying activity

INVENTOR(S): Horwath, Kathleen L., Endwell, NY, UNITED STATES  
Easton, Christopher M., Ithaca, NY, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005208509	A1	20050922
APPLICATION INFO.:	US 2004-917030	A1	20040812 (10)
RELATED APPLN. INFO.:	Division of Ser. No. US 2001-876796, filed on 7 Jun 2001, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-210446P	20000608 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	MARK LEVY & ASSOCIATES, PLLC, PRESS BUILDING, SUITE 902, 19 CHENANGO STREET, BINGHAMTON, NY, 13901, US	

NUMBER OF CLAIMS: 27  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 131 Drawing Page(s)  
LINE COUNT: 9928  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L1 ANSWER 2 OF 7 USPATFULL on STN  
TI Nucleic acid sequences encoding type III tenebrio antifreeze proteins and method for assaying activity  
AB Thermal hysteresis proteins and their nucleotide sequences derived from the Tenebrionoidea Superfamily which lower the freezing point of a solution without effecting the melting point. Related methods for preparing said proteins and for providing antifreeze or recrystallization inhibition properties to a subject formulation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
ACCESSION NUMBER: 2005:173249 USPATFULL  
TITLE: Nucleic acid sequences encoding type III tenebrio antifreeze proteins and method for assaying activity  
INVENTOR(S): Horwath, Kathleen L., Endwell, NY, UNITED STATES  
Easton, Christopher M., Ithaca, NY, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005150000	A1	20050707
APPLICATION INFO.:	US 2004-916986	A1	20040812 (10)
RELATED APPLN. INFO.:	Division of Ser. No. US 2001-876796, filed on 7 Jun 2001, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-210446P	20000608 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	MARK LEVY & ASSOCIATES, PLLC, PRESS BUILDING, SUITE 902, 19 CHENANGO STREET, BINGHAMTON, NY, 13901, US	
NUMBER OF CLAIMS:	3	
EXEMPLARY CLAIM:	1-38	
NUMBER OF DRAWINGS:	131 Drawing Page(s)	
LINE COUNT:	9857	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L1 ANSWER 3 OF 7 USPATFULL on STN  
TI Nucleic acid sequences encoding type III tenebrio antifreeze proteins and method for assaying activity  
AB Thermal hysteresis proteins and their nucleotide sequences derived from the Tenebrionoidea Superfamily which lower the freezing point of a solution without effecting the melting point. Related methods for preparing said proteins and for providing antifreeze or recrystallization inhibition properties to a subject formulation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
ACCESSION NUMBER: 2002:307900 USPATFULL  
TITLE: Nucleic acid sequences encoding type III tenebrio antifreeze proteins and method for assaying activity  
INVENTOR(S): Horwath, Kathleen L., Endwell, NY, UNITED STATES  
Easton, Christopher M., Ithaca, NY, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002173024	A1	20021121
APPLICATION INFO.:	US 2001-876796	A1	20010607 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-210446P	20000608 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Mark Levy, SALZMAN & LEVY, Ste. 902, 19 Chenango St., Binghamton, NY, 13901	
NUMBER OF CLAIMS:	40	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	131 Drawing Page(s)	
LINE COUNT:	10082	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L1 ANSWER 4 OF 7 USPATFULL on STN  
 TI Nucleic acid sequences encoding type III tenebrio antifreeze proteins and method for assaying activity  
 AB A recrystallization inhibition method for determining the presence, relative concentration, and/or activity of thermal hysteresis proteins comprising: providing a proteinaceous composition in a solvent to form a test solution; flash freezing said solution; raising the temperature of the frozen solution to an appropriate annealing temperature that allows for a partial melt, while limiting heterogeneity in ice grain sizes within said solution; maintaining said frozen solution at the annealing temperature for a length of time sufficient to allow for recrystallization; monitoring the ice crystal grain size changes over time; and determining the presence of functional thermal hysteresis proteins in said solution given the retention of significantly smaller ice crystal grain sizes relative to at least one control solution.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
 ACCESSION NUMBER: 2002:307828 USPATFULL  
 TITLE: Nucleic acid sequences encoding type III tenebrio antifreeze proteins and method for assaying activity  
 INVENTOR(S): Horwath, Kathleen L., Endwell, NY, UNITED STATES  
 Meyers, Kevin L., Trumansburg, NY, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002172951	A1	20021121
APPLICATION INFO.:	US 2001-876348	A1	20010607 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-210446P	20000608 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Mark Levy, SALZMAN & LEVY, Ste. 902, 19 Chenango St., Binghamton, NY, 13901	
NUMBER OF CLAIMS:	34	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	131 Drawing Page(s)	
LINE COUNT:	10121	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L1 ANSWER 5 OF 7 USPATFULL on STN  
 TI Ice crystal growth suppression polypeptides and method of making  
 AB Novel methods of improving freezing tolerance of organic materials through the use of antifreeze polypeptides is provided. These polypeptides increase the storage life of foodstuffs and biologics, as well as protect plant products, such as during growth. The antifreeze polypeptides, or their fusion proteins, may be produced chemically or by recombinant DNA techniques, and then purified for a variety of uses.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 92:44933 USPATFULL

TITLE: Ice crystal growth suppression polypeptides and method of making

INVENTOR(S): Warren, Gareth J., San Francisco, CA, United States  
Mueller, Gunhild M., San Francisco, CA, United States

McKown, Robert L., Albany, CA, United States  
PATENT ASSIGNEE(S): DNA Plant Technology Corporation, Oakland, CA, United States (U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 5118792 19920602  
APPLICATION INFO.: US 1989-350481 19890510 (7)

DOCUMENT TYPE: Utility

FILE SEGMENT: Granted

PRIMARY EXAMINER: Robinson, Douglas W.

ASSISTANT EXAMINER: Weber, Jon P.

LEGAL REPRESENTATIVE: Townsend and Townsend

NUMBER OF CLAIMS: 7

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 30 Drawing Figure(s); 29 Drawing Page(s)

LINE COUNT: 1850

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L1 ANSWER 6 OF 7 WPIDS COPYRIGHT 2005 THE THOMSON CORP on STN

TI New plant anti-freeze protein useful in frozen food products.

AN 1999-458697 [38] WPIDS

AB WO 9937782 A UPAB: 19990922

NOVELTY - A plant anti-freeze protein characterized in that at least 40% of its amino acids are from the group of serine, threonine and asparagine, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) a nucleic acid sequence capable of encoding the anti-freeze protein as above;
- (2) a frozen food product comprising the anti-freeze protein;
- (3) a method of obtaining an anti-freeze protein as above, where the protein is produced by a genetically modified organism; and
- (4) a plant, capable of expressing the anti-freeze protein and having an increased frost tolerance.

ACTIVITY - None Given.

MECHANISM OF ACTION - None Given.

USE - The anti-freeze protein can be used in frozen food products, especially frozen confectionery (claimed). Anti-freeze proteins are especially used in food products, which are heated, e.g. by pasteurization, blanching or sterilization prior to freezing. Plants transformed with a nucleic acid sequence encoding the anti-freeze protein have an increased frost tolerance (claimed).

ADVANTAGE - Prior art anti-freeze proteins have not been applied to commercially available food products, due to high costs and complicated process for obtaining the protein. Also prior art anti-freeze proteins have tended to destabilize during processing especially during the pasteurization step. This is overcome by the present anti-freeze protein. The anti-freeze proteins provide an ice particle size following an ice **recrystallization inhibition assay** of 15  $\mu$ M or less. The anti-freeze protein ingredient means that mixes can be frozen under quiescent conditions, e.g. in a shop or home freezer without the formation of unacceptable ice crystal shapes and hence with a texture different to products normally obtained via quiescent freezing.

Dwg.0/0

ACCESSION NUMBER: 1999-458697 [38] WPIDS  
DOC. NO. NON-CPI: N1999-343101

DOC. NO. CPI: C1999-134718  
 TITLE: New plant anti-freeze protein useful in frozen food products.  
 DERWENT CLASS: B04 C06 D13 D16 P13  
 INVENTOR(S): JARMAN, C D; SIDEBOTTOM, C M; TWIGG, S; WORRALL, D  
 PATENT ASSIGNEE(S): (UNIL) UNILEVER PLC; (JARM-I) JARMAN C D; (UNIL) UNILEVER NV; (GOOD-N) GOOD HUMOR-BREYERS ICE CREAM DIV CONOPCO  
 COUNTRY COUNT: 85  
 PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
WO 9937782	A2	19990729 (199938)*	EN	39	
RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW					
W: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW					
AU 9924188	A	19990809	(200001)		
BR 9814776	A	20001024	(200058)		
EP 1049783	A2	20001108	(200062)	EN	
R: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE					
CZ 2000002696	A3	20001213	(200103)		
SK 2000001095	A3	20010212	(200112)		
CN 1290300	A	20010404	(200140)		
HU 2001001252	A2	20010828	(200157)		
MX 2000007100	A1	20010301	(200170)		
JP 2002504316	W	20020212	(200215)	39	
AU 747087	B	20020509	(200238)		
IL 137256	A	20040104	(200411)		
US 6852841	B1	20050208	(200511)		
EP 1049783	B1	20051019	(200569)	EN	
R: AT BE CH DE DK ES FR GB GR IE IT LI NL PT SE					

#### APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 9937782	A2	WO 1998-EP8553	19981223
AU 9924188	A	AU 1999-24188	19981223
BR 9814776	A	BR 1998-14776	19981223
		WO 1998-EP8553	19981223
EP 1049783	A2	EP 1998-966702	19981223
		WO 1998-EP8553	19981223
CZ 2000002696	A3	WO 1998-EP8553	19981223
		CZ 2000-2696	19981223
SK 2000001095	A3	WO 1998-EP8553	19981223
		SK 2000-1095	19981223
CN 1290300	A	CN 1998-813922	19981223
HU 2001001252	A2	WO 1998-EP8553	19981223
		HU 2001-1252	19981223
MX 2000007100	A1	MX 2000-7100	20000720
JP 2002504316	W	WO 1998-EP8553	19981223
		JP 2000-528689	19981223
AU 747087	B	AU 1999-24188	19981223
IL 137256	A	IL 1998-137256	19981223
US 6852841	B1	WO 1998-EP8553	19981223
		US 2000-600787	20001124
EP 1049783	B1	EP 1998-966702	19981223
		WO 1998-EP8553	19981223

#### FILING DETAILS:

PATENT NO	KIND	PATENT NO
AU 9924188	A Based on	WO 9937782
BR 9814776	A Based on	WO 9937782
EP 1049783	A2 Based on	WO 9937782
CZ 2000002696	A3 Based on	WO 9937782
HU 2001001252	A2 Based on	WO 9937782
JP 2002504316	W Based on	WO 9937782
AU 747087	B Previous Publ. Based on	AU 9924188 WO 9937782
IL 137256	A Based on	WO 9937782
US 6852841	B1 Based on	WO 9937782
EP 1049783	B1 Based on	WO 9937782

PRIORITY APPLN. INFO: GB 1998-1408 19980122

L1 ANSWER 7 OF 7 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
 TI A facile method for determining ice recrystallization inhibition by  
 antifreeze proteins.

AB Ice recrystallization, the growth of large ice crystals at the expense of  
 small ones, stresses freeze tolerant organisms and causes spoilage of  
 frozen foods. This process is inhibited by antifreeze proteins (AFPs).  
 Here, we present a simple method for determining the ice recrystallization  
 inhibition (RI) activity of an AFP under physiological conditions using 10  
 mul glass capillaries. Serial dilutions were prepared to determine the  
 concentration below which RI activity was no longer detected, termed the  
 RI endpoint. For type III AFP this was 200 nM. The capillary method  
 allows samples to be aligned and viewed simultaneously, which facilitates  
 RI endpoint determination. Once prepared, the samples can be used  
 reproducibly in subsequent RI assays and can be archived in a freezer for  
 future reference. This method was used to detect the elution of type III  
 AFP from a Sephadex G-75 size-exclusion column. RI activity was found at  
 the expected Ve for a 7 kDa protein and also unexpectedly in the void  
 volume.

ACCESSION NUMBER: 2004:64469 BIOSIS

DOCUMENT NUMBER: PREV200400065777

TITLE: A facile method for determining ice recrystallization  
 inhibition by antifreeze proteins.

AUTHOR(S): Tomczak, Melanie M.; Marshall, Christopher B.; Gilbert,  
 Jack A.; Davies, Peter L. [Reprint Author]

CORPORATE SOURCE: Department of Biochemistry and Protein Engineering Network  
 of Centres of Excellence, Queens University, Kingston, ON,  
 K7L 3N6, Canada

SOURCE: daviesp@post.queensu.ca  
 Biochemical and Biophysical Research Communications,  
 (November 28 2003) Vol. 311, No. 4, pp. 1041-1046. print.  
 CODEN: BBRCA9. ISSN: 0006-291X.

DOCUMENT TYPE: Article

LANGUAGE: English

ENTRY DATE: Entered STN: 28 Jan 2004  
 Last Updated on STN: 28 Jan 2004

# Refine Search

## Search Results -

Terms	Documents
L8 and L7	13

Database:

US Pre-Grant Publication Full-Text Database  
US Patents Full-Text Database  
US OCR Full-Text Database  
EPO Abstracts Database  
JPO Abstracts Database  
Derwent World Patents Index  
IBM Technical Disclosure Bulletins

Search:

L9

Refine Search

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## Search History

DATE: Friday, October 28, 2005 [Printable Copy](#) [Create Case](#)

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result set

DB=PGPB,USPT; PLUR=YES; OP=OR

<u>L9</u>	L8 and l7	13	<u>L9</u>
<u>L8</u>	horwath.in.	81	<u>L8</u>
<u>L7</u>	L6 and (ice crystal grain size index)	262287	<u>L7</u>
<u>L6</u>	L5 and thermal hysteresis protein	330939	<u>L6</u>
<u>L5</u>	l2 and PBS	67413	<u>L5</u>
<u>L4</u>	L3 and (annealing temperature)	1	<u>L4</u>
<u>L3</u>	20020172951	1	<u>L3</u>

DB=USPT; PLUR=YES; OP=OR

<u>L2</u>	L1 and annealing temperature	1332686	<u>L2</u>
<u>L1</u>	(recrystallization inhibition assay)	215347	<u>L1</u>

END OF SEARCH HISTORY

# Hit List

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Search Results - Record(s) 1 through 10 of 13 returned.

1. Document ID: US 20050208509 A1

Using default format because multiple data bases are involved.

L9: Entry 1 of 13

File: PGPB

Sep 22, 2005

PGPUB-DOCUMENT-NUMBER: 20050208509

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050208509 A1

TITLE: Nucleic acid sequences encoding type III tenebrio antifreeze proteins and method for assaying activity

PUBLICATION-DATE: September 22, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
<u>Horwath, Kathleen L.</u>	Endwell	NY	US
Easton, Christopher M.	Ithaca	NY	US

US-CL-CURRENT: 435/6; 435/252.3, 435/320.1, 435/69.1, 530/350, 530/388.4, 536/23.2

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2. Document ID: US 20050150000 A1

L9: Entry 2 of 13

File: PGPB

Jul 7, 2005

PGPUB-DOCUMENT-NUMBER: 20050150000

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050150000 A1

TITLE: Nucleic acid sequences encoding type III tenebrio antifreeze proteins and method for assaying activity

PUBLICATION-DATE: July 7, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
<u>Horwath, Kathleen L.</u>	Endwell	NY	US
Easton, Christopher M.	Ithaca	NY	US

US-CL-CURRENT: 800/20; 252/70, 435/320.1, 435/325, 435/69.1, 530/350, 530/388.1, 536/23.5

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Ima](#)

3. Document ID: US 20020173024 A1

L9: Entry 3 of 13

File: PGPB

Nov 21, 2002

PGPUB-DOCUMENT-NUMBER: 20020173024  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020173024 A1

TITLE: Nucleic acid sequences encoding type III tenebrio antifreeze proteins and method for assaying activity

PUBLICATION-DATE: November 21, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
<u>Horwath</u> , Kathleen L.	Endwell	NY	US
Easton, Christopher M.	Ithaca	NY	US

US-CL-CURRENT: 435/199; 435/252.3, 435/320.1, 435/6, 435/69.1, 536/23.1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KDDC](#) | [Drawn Desc](#) | [Ima](#)

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4. Document ID: US 20020172951 A1

L9: Entry 4 of 13

File: PGPB

Nov 21, 2002

PGPUB-DOCUMENT-NUMBER: 20020172951  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020172951 A1

TITLE: Nucleic acid sequences encoding type III tenebrio antifreeze proteins and method for assaying activity

PUBLICATION-DATE: November 21, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
<u>Horwath</u> , Kathleen L.	Endwell	NY	US
Meyers, Kevin L.	Trumansburg	NY	US

US-CL-CURRENT: 435/6

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KDDC](#) | [Drawn Desc](#) | [Ima](#)

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5. Document ID: US 4605619 A

L9: Entry 5 of 13

File: USPT

Aug 12, 1986

US-PAT-NO: 4605619  
DOCUMENT-IDENTIFIER: US 4605619 A

TITLE: Process for preparing fructose from starch

DATE-ISSUED: August 12, 1986

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Horwath</u> ; Robert O.	Westport	CT		
Irbe; Robert M.	Norwalk	CT		

6. Document ID: US 4492755 A

L9: Entry 6 of 13

File: USPT

Jan 8, 1985

US-PAT-NO: 4492755

DOCUMENT-IDENTIFIER: US 4492755 A

TITLE: Process for isomerizing L-mannose to L-fructose

DATE-ISSUED: January 8, 1985

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Horwath</u> ; Robert O.	Westport	CT		
Colonna; William J.	Wilton	CT		

7. Document ID: US 4467033 A

L9: Entry 7 of 13

File: USPT

Aug 21, 1984

US-PAT-NO: 4467033

DOCUMENT-IDENTIFIER: US 4467033 A

TITLE: Process for oxidizing L-sorbitol to L-fructose

DATE-ISSUED: August 21, 1984

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Horwath</u> ; Robert O.	Westport	CT		
Colonna; William J.	Wilton	CT		

8. Document ID: US 4458017 A

L9: Entry 8 of 13

File: USPT

Jul 3, 1984

US-PAT-NO: 4458017

DOCUMENT-IDENTIFIER: US 4458017 A

TITLE: Process for preparing fructose from starch

DATE-ISSUED: July 3, 1984

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Horwath</u> ; Robert O.	Westport	CT		
Irbe; Robert M.	Norwalk	CT		

US-CL-CURRENT: 435/94; 435/234, 435/911, 435/96, 435/99

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KDDC](#) | [Draw Desc](#) | [Image](#)

9. Document ID: US 4456622 A

L9: Entry 9 of 13

File: USPT

Jun 26, 1984

US-PAT-NO: 4456622

DOCUMENT-IDENTIFIER: US 4456622 A

\*\* See image for Certificate of Correction \*\*

TITLE: Combination semi-continuous and batch process for preparation of vinegar

DATE-ISSUED: June 26, 1984

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Maselli; John A.	Wilton	CT		
<u>Horwath</u> ; Robert O.	Westport	CT		

US-CL-CURRENT: 426/17; 435/140

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KDDC](#) | [Draw Desc](#) | [Image](#)

10. Document ID: US 4447531 A

L9: Entry 10 of 13

File: USPT

May 8, 1984

US-PAT-NO: 4447531

DOCUMENT-IDENTIFIER: US 4447531 A

TITLE: Glucose isomerase from fungi of the basidiomycetes class

DATE-ISSUED: May 8, 1984

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Horwath</u> ; Robert O.	Westport	CT		
Irbe; Robert M.	Norwalk	CT		

US-CL-CURRENT: 435/94; 435/234, 435/911

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### 11. Document ID: US 4442207 A

Using default format because multiple data bases are involved.

L9: Entry 11 of 13

File: USPT

Apr 10, 1984

US-PAT-NO: 4442207

DOCUMENT-IDENTIFIER: US 4442207 A

TITLE: Process for production of glucosone

DATE-ISSUED: April 10, 1984

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Horwath</u> ; Robert O.	Westport	CT		
Ibrahim; Osama O.	Brookfield	CT		

US-CL-CURRENT: 435/105; 435/190, 435/911

[Full](#)  [Title](#)  [Citation](#)  [Front](#)  [Review](#)  [Classification](#)  [Date](#)  [Reference](#)  [Claims](#)  [KMC](#)  [Draw Desc](#)  [Ima](#)

### 12. Document ID: US 4431733 A

L9: Entry 12 of 13

File: USPT

Feb 14, 1984

US-PAT-NO: 4431733

DOCUMENT-IDENTIFIER: US 4431733 A

TITLE: Process for preparing fructose from liquefied starch

DATE-ISSUED: February 14, 1984

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Horwath</u> ; Robert O.	Westport	CT		
Irbe; Robert M.	Norwalk	CT		

US-CL-CURRENT: 435/94; 435/234, 435/911, 435/96

[Full](#)  [Title](#)  [Citation](#)  [Front](#)  [Review](#)  [Classification](#)  [Date](#)  [Reference](#)  [Claims](#)  [KMC](#)  [Draw Desc](#)  [Ima](#)

### 13. Document ID: US 4410627 A

L9: Entry 13 of 13

File: USPT

Oct 18, 1983

US-PAT-NO: 4410627

DOCUMENT-IDENTIFIER: US 4410627 A

TITLE: Glucose isomerase process

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lloyd; Norman E.	Clinton	IA		
<u>Horwath; Robert O.</u>	Westport	CT		

US-CL-CURRENT: 435/94

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Abstract](#) | [Claims](#) | [KOMC](#) | [Drawn Desc](#) | [Image](#)

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Documents

L8 and L7

13

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[Previous Page](#)

[Next Page](#)

[Go to Doc#](#)